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Please amend the claims as follows (this listing of claims replaces all prior versions and listings):

## Listing of Claims:

#### 1-35. (Canceled)

## (Withdrawn) An apparatus comprising:

an element to change a volume of a fluid chamber of a droplet ejection device, the element having an electrical capacitance; and

control circuitry to apply charging voltages using selected charging resistors to charge the electrical capacitance at a first rate, followed by charging the capacitance at a second rate before discharging the capacitance.

- (Withdrawn) The apparatus of claim 36 wherein the element comprises an
   electrically actuated displacement device.
- (Withdrawn) The apparatus of claim 36 wherein different charging voltages are applied to different charging resistors.
- 39. (Withdrawn) The apparatus of claim 36 wherein the control circuitry comprises charging control switches each associated with one of the charging resistors, each charging control switch determining the connection state between the electrical capacitance and the respective charging voltage through the respective charging resistor.
- 40. (Withdrawn) The apparatus of claim 36 wherein the control circuitry is to hold a charge in the capacitance for a period of time after charging at the first rate and before charging at the second rate.

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41. (Withdrawn) The apparatus of claim 36 wherein the electrically actuated displacement device comprises a piezoelectric actuator.

# 42. (Withdrawn) An apparatus comprising:

an element to change a volume of a fluid chamber of a droplet ejection device, the element having an electrical capacitance; and

control circuitry to apply discharging voltages using selected discharging resistors to discharge the electrical capacitance at a first rate, followed by discharging the capacitance at a second rate before charging the capacitance.

- (Withdrawn) The apparatus of claim 42 wherein different discharging voltages are applied to different discharging resistors.
- 44. (Withdrawn) The apparatus of claim 42 wherein the control circuitry comprises discharging control switches each associated with one of the discharging resistors, each discharging control switch determining the connection state between the electrical capacitance and the respective discharging voltage through the respective discharging resistor.
- 45. (Withdrawn) The apparatus of claim 42 wherein the control circuitry is to hold a charge in the capacitance for a period of time after discharging at the first rate and before discharging at the second rate.
- (Withdrawn) The apparatus of claim 42 wherein the discharging voltages comprise ground voltage.

## (Withdrawn) An apparatus comprising:

an electrically actuated displacement element to change a volume of a fluid chamber of a droplet ejection device, the element having an electrical capacitance; and

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circuitry to selectively cause a constant current signal to charge the capacitance.

48. (Withdrawn) The apparatus of claim 47 wherein the circuitry comprises a control switch to control whether the constant current signal is connected to or disconnected from the electrically actuated displacement element, the constant current signal charging the capacitance of the electrically actuated displacement device when the control switch connects the constant

49. (Withdrawn) An apparatus comprising:

current signal to the electrically actuated displacement device.

droplet ejection devices each comprising an element to change a volume of a fluid chamber of one of the droplet ejection devices, the element having an electrical capacitance; and circuitry to inject noise into images being printed to reduce banding by providing charges on respective elements.

- (Withdrawn) The apparatus of claim 49 wherein the element comprises an electrically actuated displacement device.
- 51. (Withdrawn) The apparatus of claim 49 wherein the circuitry comprises charging control switches to connect or disconnect charge voltages or charge currents to respective elements to charge the respective electrical capacitances.
- (Withdrawn) The apparatus of claim 49 wherein the circuitry injects noise into images being printed to break up possible print patterns.
  - (Currently Amended) An apparatus comprising:

droplet ejection devices each comprising an element to change a volume of a fluid chamber of one of the droplet ejection devices, the element having an electrical capacitance; and

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control circuitry to effect uniform droplet velocities from the of droplets ejected from at least two different ones of the droplet ejection devices by providing respective charge voltages or charge currents to the volume changing elements to individually control a charge on each volume changing element.

54. (Previously Presented) The apparatus of claim 53 wherein the control circuitry effects uniform droplet velocities also by providing respective discharge voltages or discharge currents to the volume changing elements.

- 55. (Previously Presented) The apparatus of claim 54 wherein the control circuitry comprises discharging control switches to connect or disconnect discharge voltages or discharge currents to respective elements to discharge the respective electrical capacitances.
- 56. (Previously Presented) The apparatus of claim 53 wherein the control circuitry comprises charging control switches to connect or disconnect charge voltages or charge currents to respective elements to charge the respective electrical capacitances.
- (Previously Presented) The apparatus of claim 53 wherein the volume changing element comprises an electrically actuated displacement device.

# (Withdrawn) An apparatus comprising:

droplet ejection devices each comprising an element to change a volume of a fluid chamber of one of the droplet ejection devices, the element having an electrical capacitance; and control circuitry to effect predetermined different drop velocities from different droplet ejection devices so as to provide gray scale control by providing respective charge voltages or charge currents to the volume changing elements.

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59. (Withdrawn) The apparatus of claim 58 wherein the control circuitry effects predetermined different drop velocities from different droplet ejection devices also by providing respective discharge voltages or discharge currents to the volume changing elements.

- 60. (Withdrawn) The apparatus of claim 59 wherein the control circuitry comprises discharging control switches to connect or disconnect discharge voltages or discharge currents to respective elements to discharge the respective electrical capacitances.
- 61. (Withdrawn) The apparatus of claim 58 wherein the control circuitry comprises charging control switches to connect or disconnect charge voltages or charge currents to respective elements to charge the respective electrical capacitances.
- (Withdrawn) The apparatus of claim 58 wherein the volume changing element comprises an electrically actuated displacement device.
  - (Withdrawn) An apparatus comprising:

a droplet ejection device comprising an element to change a volume of a fluid chamber of the droplet ejection device, the element having an electrical capacitance; and

control circuitry to vary the amplitude of charge as well as the length of time of charge on the volume changing element for the first droplet out of the droplet ejection device so as to match subsequent droplets by providing respective charge voltages, charge currents, discharge voltages, or discharge currents to the volume changing element.

 (Withdrawn) The apparatus of claim 63 wherein the volume changing element comprises an electrically actuated displacement device.

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65. (Withdrawn) The apparatus of claim 63 wherein the control circuitry comprises charging control switches to connect or disconnect the charge voltages or charge currents to the element to charge the electrical capacitance.

66. (Withdrawn) The apparatus of claim 63 wherein the control circuitry comprises discharging control switches to connect or disconnect the discharge voltages or discharge currents to the element to discharge the electrical capacitance.

#### (Withdrawn) An apparatus comprising:

droplet ejection devices each comprising an element to change a volume of a fluid chamber of one of the droplet ejection devices, the element having an electrical capacitance; and control circuitry to control charging of the electrical capacitance of each of the volume changing element as a function of a frequency of droplet ejection to reduce variation in drop volume as a function of the frequency by providing respective charge voltages or charge currents to the volume changing elements.

- 68. (Withdrawn) The apparatus of claim 67 wherein the control circuitry controls charging of the volume changing element as a function of a frequency of droplet ejection to reduce variation in drop volume as a function of the frequency also by providing respective discharge voltages or discharge currents to the volume changing elements.
- 69. (Withdrawn) The apparatus of claim 68 wherein the control circuitry comprises discharging control switches to connect or disconnect discharge voltages or discharge currents to respective elements to discharge the respective electrical capacitances.
- 70. (Withdrawn) The apparatus of claim 67 wherein the control circuitry comprises charging control switches to connect or disconnect charge voltages or charge currents to respective elements to charge the respective electrical capacitances.